OK

Depth 6	Contents 7	Reference to last Measurement 8
21.91	663-00	
21	917-00	
21	917-00	
2	192-00	
14	774-00	
19	568-00	
19	568-00	
999	36-00	
20.91	727-00	

Premeasurements

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496430

Serial No. first and final bill

Name of Work Improvements to roads From and drains (balance works) ammathahalli in 57 To

Name of Contractor of nature of Agency byatarayanapura

Date of commencement of work Sri. N. Lokanathreddy

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Est. cost:	25.00 lakhs					
	Job code:	007-18-000080					
	Head of account:	P1771					
	A.S.NO:-	AS/CE(YNK)/325/18-19; dt: 08.02.18					
	T.S.NO:-	TS/CE(YNK)/13/18-19; dt: 26.07.18					
	Agr no:-	NO.EE/BTP/Agr/146/18-19, dt: 20.10.18					
	Work order no:-	No.BBMP/EE/BTP/WO/146/18-19; dt: 20.10.18					
	Work order amount:-	2160824.92					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.01:- Premeasurements recorded on: 22.10.18						
	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m.;						
	RCC-drain: Backside of PHC						
	0-30	01	30.0	1.0	1.0	= 30.00	
	30-52	01	22.0	1.0	1.0	= 22.00	
	Maramma temple Street:						
	0.30	01	30.0	0.75	0.75	= 16.88	
	30-55	01	25.0	0.75	0.75	= 14.06	
						82.94 cum.	
	CC-road around maramma temple:						
		01	14.0	4.50	0.30	= 18.90	
		01	15.0	3.55	0.30	= 15.98	
		01	10.0	3.80	0.30	= 11.40	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Over-burden-earth:

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.

BOOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
18			
	means	in ordinary soil	
w	upto	2m.,	
○	1.0	= 30.00	
○	1.0	= 22.00	
75	0.75	= 16.88	
75	0.75	= 14.06	
		82.94 cum.	
50	0.30	= 18.90	
55	0.30	= 15.98	
80	0.30	= 11.40	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496431

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		01	14.0	4.9	0.30	= 20.58	
		01	12.0	8.0	0.30	= 28.80	
		01	11.0	10.0	0.30	= 33.00	
		01	37.0	8.60	0.30	= 95.46	
		01	61.0	5.20	0.30	= 95.16	
						319.28 cum	
	Over-burden-earth:	01	14.0	1.80	0.50	= 12.60	
		01	18.0	1.80	0.50	= 16.20	
						28.80 cum	
				Today =		431.01.60 cum	
		403.20	cum				

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.

Dr. M.N.D
AE(W)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Item No.03	– Premeasurements recorded on: 23.10.18						
	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm.,						
	Backside of PHC: 0-30	01	30.0	1.0	0.15	= 4.50	
	30-52	01	25.0	1.0	0.15	= 3.30	
	CC-road around maramma temple: street;						
	0-30	01	30.0	0.75	0.15	= 03.38	
	30-55	01	25.0	0.75	0.15	= 02.81	
						13.99 cum	
	CC-road around- maramma temple street:						
		01	14.0	4.50	0.15	= 9.45	
		01	15.0	3.55	0.15	= 7.99	
		01	10.0	3.80	0.15	= 5.70	
		01	14.0	4.90	0.15	= 10.29	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2

CE/Se
23/10/18
Sty Hd

Assistant Executive Eng
Kodigehalli Sub Divis
Yelahanka Zone, B.B.
Bangalore.

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
	0.18		
		ain cement concrete of	
	0.15	= 4.50	
	0.15	= 3.30	
		et ;	
	0.15	= 03.38	
	0.15	= 02.81	
		13.99 cum	
		reet :	
	0.15	= 9.45	
	0.15	= 7.99	
	0.15	= 5.70	
	0.15	= 10.29	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496432

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		01	12.0	8.0	0.15	= 14.40	
		01	11.0	10.0	0.15	= 16.50	
		01	37.0	8.60	0.15	= 47.73	
		01	61.0	5.20	0.15	= 47.58	
						159.64 cum	
				Total =		173.63 cum	
	CE/le Qty 23/10/18						
	Qty Hd to: 173.10 cum						
	Assistant Executive Engineer. Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.						
	Mtly W.N.D AE(W)						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 05:- Premeasurements recorded on: 25.10.18						
	Providing TMT steel reinforcement for RCC work including straightening, cutting, bending,						
		CH	No	Le	No of rods	Le of 1 bar	Total length. 10mm / 8mm
	Backside of PHC:						
	Main rod	0-30	01	30.0	345	1.80	621 / -
	Distribution:		-	-	7.0	30.0	- / 210
		30-52	01	22.0	245	1.80	441 / -
			-	-	7.0	22.0	- / 154
	Maramma temple street:-						
		0-30	01	30.0	345	1.10	379.5 / -
			-	-	7.0	30.0	- / 210

Yelahanka, Bangalore.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	30-5
	10mm
	8mm

Assistant Executive En
Kodigehalli Sub Divi

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
25.10.18			
for RCC		work including	
o of dis	le of U bas	Total length. 10mm	8mm
45	1.80	621	-
7.0	30.0	-	210
45	1.80	441	-
7.0	22.0	-	154
345	1.10	379.5	-
7.0	30.0	-	210

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496433

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	30.55	01	25.0	280	1.0	280	-
		-	-	70	25	-	175
					Total =	1721.5	749.0
	10mm @ 0.62 kg/cum = 1067.33						
	8mm @ 0.39 kg/cum = 292.11						
		Total =		1.36 tonne			

Abstd. N.D
AE(WT)

CER

Assistant Executive Engineer
Kodigehalli Sub Division,
[illegible] Zone, BBMP

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 04:- Premeasurements recorded: 25.10.18						
	Providing and removing centering, shuttering, strutting, propping etc.)						
	RCC drain- sidewall:						
	Back-side of PHC: 0-30	1x4=4	30.0	-	0.75	= 90.0	
	30-52	1x4=4	22.0	-	0.75	= 66.00	
	Maramma temple street:						
	0-30	1x4=4	30.0	-	0.45	= 54.00	
	30-55	1x4=4	25.0	-	0.45	= 45.00	
						255.0 Sqm	
	Qty ltd to 175.00 Sqm						
	At the Rate of Rs. 342.21 → Arthill N.D AE(127)						

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,

Serial No. MAIN- BILL:
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	Item No 01:- Earthwork exca	
	involving an average h	
	upto 1.5m, excavated	
	disposed earth to be	
	Qty vide page n	
	At the rate of	
	Item No 02:- Providing and	
	nominal mix 1:4:8 using	

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
18			
ng, shuttering, strutting,			
-	0.75	= 90.0	
-	0.75	= 66.00	
-	0.45	= 54.00	
-	0.45	= 45.00	
		255.0 Sqm	
→		Abstd. N.D AE(Civil)	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496434

Serial No. MAIN- BILL:

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.01:- Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly).						
	Qty vide page no. 496431 →					403.20 cum	
	At the rate of Rs. 76.67 →						30913.34
	Item No.02:- Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	machine mixed, concrete laid in layers not exceeding 15 cm th;						
	Qty vide page no. 496432 →				173.10 cum		
	At the rate of Rs. 4550.76 →						787736.56
	Item No. 03:- Providing TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position lapping and welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete.,						
	Qty vide page no. 496433 →				1.36 tonne		
	At the rate of Rs. 56669.87 →						77071.02

Serial No. .....
Name of Work .....
Name of Contractor of nature of A
Date of commencement of work ..

Date	Full description, etc, of w
1	2
	Item No. 04:- Providing for columns, pilla slabs/side walls complete as per Qty vide p At the rat
	Item No. 05:- Providing mix M20 with OPC granite metal co

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
ayers not exceeding 15cmeth,			
→	173.10 cum		
→			7877 36.56
ent for RCC works including			
hooking, placing in position			
quired, tying with binding			
ng members wherever			
→	1.36 tonne		
→			77071.01

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496435

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.04:- Providing and removing centering, shuttering, strutting, propping etc, for columns, pillars, piers, abutments, post and struts, square/rectangular slabs/side walls polygon in plan including cost of materials, labour Complete as per specifications and directions of the engineer-in-charge.						
	Qty vide page no. 496433 →				135 sqm		
	At the rate of Rs. 342.21 →						46198.35
	Item No.05:- Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs with 20mm and down size graded granite metal coarse aggregate @ 0.878 cum and fine aggregate						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	@ 0.459 cum with superplastizers & 3 hrs confirming.)						
	RCC - drain - bottom:						
	Back side of PHC: 0-30	01	30.0	0.90	0.15	= 4.05	
	30-52	01	22.0	0.90	0.15	= 2.97	
	Maramma temple street:						
	0-30	01	30.0	0.75	0.15	= 3.38	
	30-55	01	25.0	0.75	0.15	= 2.81	
	Sidewall:	1x2	30.0	0.15	0.45	= 4.05	
		1x1	22.0	0.15	0.45	= 2.97	
		1x2	30.0	0.15	0.45	= 4.05	
		1x2	25.0	0.15	0.45	= 3.38	
						27.67 cum	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	Qty ltd to.	2
	hl the rate	of
	Item.No.06:- Providing	an
	using reinforced cement	
	down size including cer	
	machine mixed concret	
	covering slab:	
	Back side of PHC: 0-30	
	30-52	

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
is confirming.,			
90	0.15 = 4.05		
90	0.15 = 2.97		
75	0.15 = 3.38		
75	0.15 = 2.81		
15	0.45 = 4.05		
15	0.45 = 2.97		
15	0.45 = 4.05		
15	0.45 = 3.38		
	27.67 cum		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496436

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty ltd to 24.75 cum						
	ht the rate of Rs. 5620.44 →						139105.89
	Item.No.06:- Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm & down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm th., covering slabs:						
	Back side of PHC: 0-30	50	0.6	0.90	-	= 27.00	
	30-52	40	0.6	0.90	-	= 21.46	
						48.46	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	48 +6	
1	2	3	4	5	6	7	8
	Maramma temple street:						
	0-30	45	0.60	0.75	- =	20.25	
	30-55	42	0.60	0.75	- =	18.90	
						88.00 sqm	
	At the rate of Rs.	1852.41 →					163012.18
	Item No 07:- Cement concrete pavement:						
	c c road around maramma temple:						
		01	14.0	4.50	0.15 =	9.45	
		01	15.0	3.55	0.15 =	7.99	
		01	10.0	3.80	0.15 =	5.70	
		01	14.0	4.90	0.15 =	10.29	
		01	12.0	8.0	0.15 =	14.40	

A7.83

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wo
1	2

Assistant Executive Engi
Kodigehalli Sub Divisi
Yelahanka Zone, B.B.M
Bangalore.

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
0·75	- =	20·25	
0·75	- =	18·90	
		88·00 sqm	
		163012·18	
4·50	0·15 =	9·45	
3·55	0·15 =	7·99	
3·80	0·15 =	5·70	
4·90	0·15 =	10·29	
8·0	0·15 =	14·40	
		A7·83	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496437

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		01	11·0	10·0	0·15	= 16·50	
		01	37·0	8·60	0·15	= 47·73	
		01	61·0	5·20	0·15	= 47·58	
						159·64 cum	
	Qty Utd to	159·60 cum					875383·66
	At the rate	of Rs. 5484·86 →					
	loading and unloading charges;						
	Item no 01	→		403·20 cum			
	At the rate	of Rs.	93·50 →				37699·20

Assistant Executive Engineer
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.
Bangalore.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Total=	2157120.00	
					Arbpll.N.D AE(W)	04/12/18	
	Certificate:						
	1) certified that the beneficiary has completed the works satisfactorily.						
	Arbpll.N.D AE(W)						
						Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	towards Amruthahalli main road PHC
	Arbpll.N.D AE(W)

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
		Total= 2157120.00	
		Appld. N.D AE(W) 04/12/18	
		completed the works	
		5/12/18	
		cutive Engineer, Sub Division, e, B.B.M.P., ngalore.	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496438

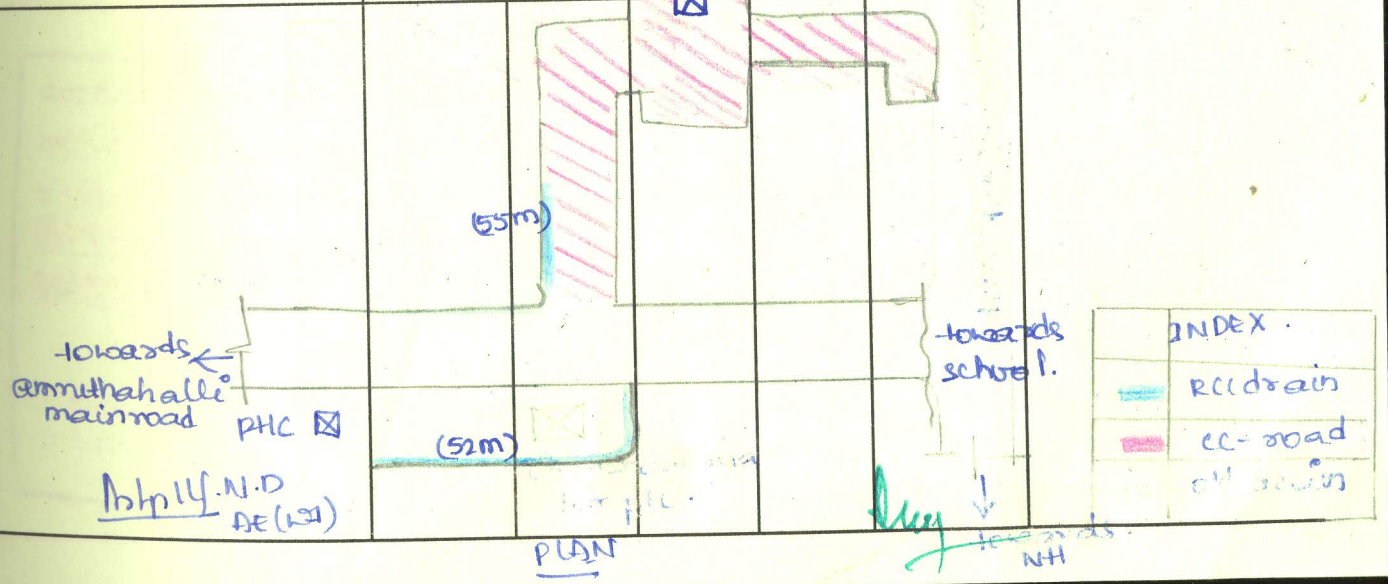
Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						Marramma temple.	



Appld. N.D
AE(W)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Royalty charges:		coarse		fine.		
Sl.No.	Details.	Co-eff	qty	coeff	qty		
02.	40mm → 173.10 cum	0.96	166.18	0.48	83.08		
05.	20mm → 24.75 cum	0.90	22.28	0.45	11.14		
07.	20mm (M_{20}) → 159.6 cum	0.85	135.66	0.416	66.40		
	Total		324.12		160.62		
	Abstract:-						
1)	Coarse-aggregate:	324.12 x 105 /cum =			34032.60		
2)	Fine-aggregate:	160.62 x 103 /cum =			16543.85		
					50576.45		

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ
ಗಳ ಪಾಸು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ
ಹೊಂಪಾಗಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿ
Rs: Twenty thousand four hundred seventy four
ಕ್ಕೆ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ
ಲೆಕ್ಕಾಧೀಕ್ಷಕರು
ಬೆ. ಪ್ರ. 05/12

OOK

Depth 6	Contents 7	Reference to last Measurement 8
qty		
83.08		
11.14		
66.40		
160.62		
4032.60		
543.85		
50576.45		

M. A. R. 57 (Rul
Measurement B

No. B 496439

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dime Number 3	Length 4	Contents 7	Reference to last Measurement 8
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 2157120-೬ ಗಳ ಪ್ರಮಾಣ ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ. 134395-೬ ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 2022725-೬ ರೂ: Twenty lakh, twenty two thousand seven hundred twenty five only. ಕೈ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ ಲೆಕ್ಕಾಧೀಕ್ಷಕರು 5/12 ಪ್ರಾಧಿಕಾರಿಯ ಸಹಿ ಸೂಚಿ ಪ್ರಾ. 05/12			Total Rs: 21,57,120-೬ IT- 21571-೬ Cess. 21571-೬ CBF. 2157-೬ LR- 50576-೬ CGST- 19260-೬ SGST- 19260-೬ Adj. 134395-೬ Cheque: 20,22,725-೬	